

Construct	Relative Number of Clones (approx.)
pBR322E1	1.00E+06.5
pBR322	1.00E+04.5
E1A825stop	1.00E+05.5
E1A608-930del	1.00E+04.8
pE1B19k1912stop	1.00E+04.2
pE1B19k1767-1912del	1.00E+04.5
pE1B55k2234stop	1.00E+06.2
pE1B55k2798stop	1.00E+06.3
pE1B55k3322stop	1.00E+06.4
pE1B55k2798-3322del	1.00E+05.8
pIX3915stop	1.00E+06.1
pIX3652-3915del	1.00E+06.4

Fig 1

3D bar chart showing the effect of pHLIP 1 (STD Helper) and pHLIP 1-IRES-GFP on cell viability. The y-axis represents cell viability (log scale, 1.E+04 to 1.E+10). The x-axis shows concentrations (1.E+04 to 1.E+10). The legend indicates two series: pHLIP 1 (STD Helper) (dark grey) and pHLIP 1-IRES-GFP (light grey).

Concentration	pHLIP 1 (STD Helper) Viability	pHLIP 1-IRES-GFP Viability
1.E+04	~1.E+09	~1.E+09
1.E+05	~1.E+08	~1.E+09
1.E+06	~1.E+07	~1.E+09
1.E+07	~1.E+06	~1.E+09
1.E+08	~1.E+05	~1.E+09
1.E+09	~1.E+04	~1.E+09
1.E+10	~1.E+04	~1.E+09

Fig 2

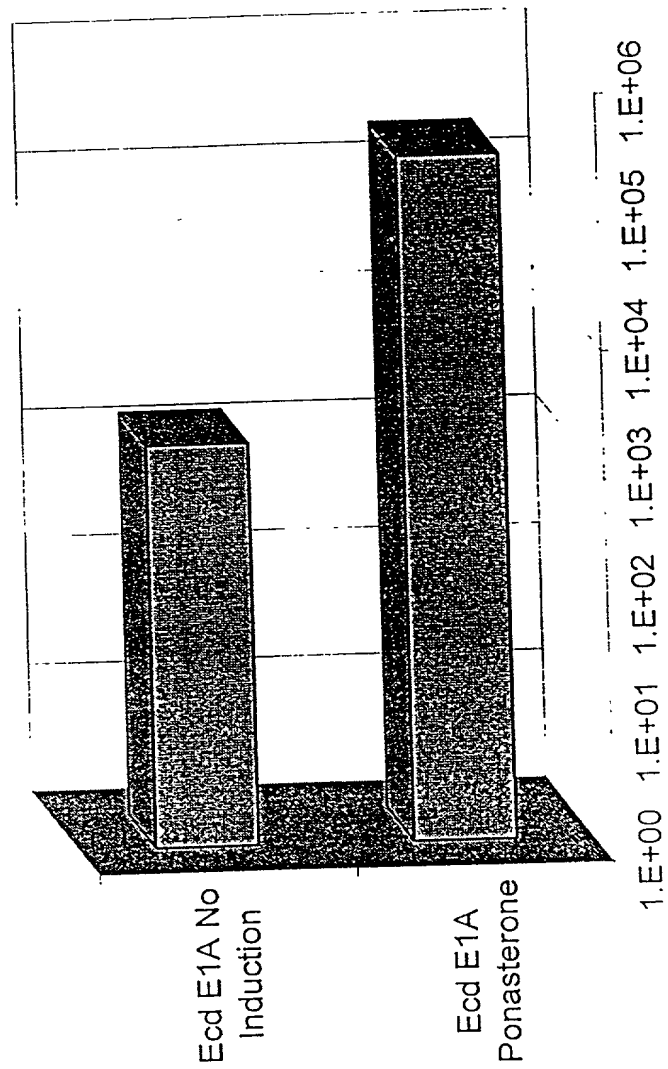


Fig 3

Packaging Cell Line: Rep Only

cap

Ad/cap
helper

Ad-AAV cap in E3

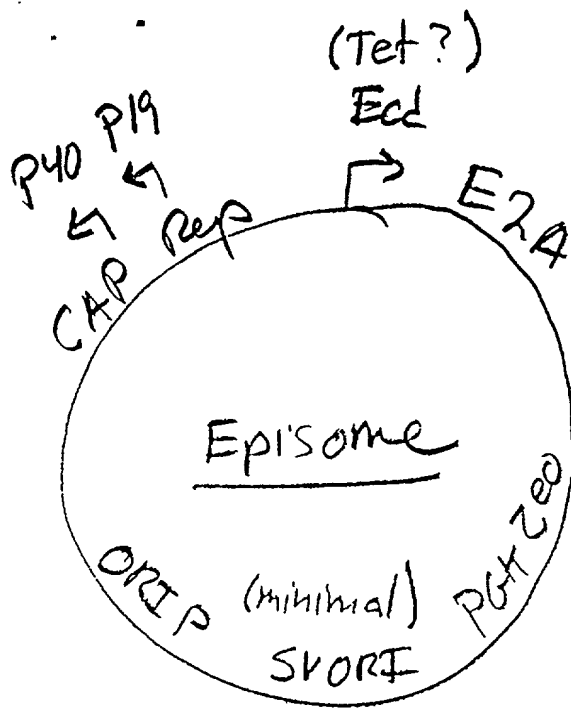
rep

Vector

AAV vector

Productivity target:
 10^4 - 10^5 particles/cell

Fig 5



Genome Site 1



Genome Site 2

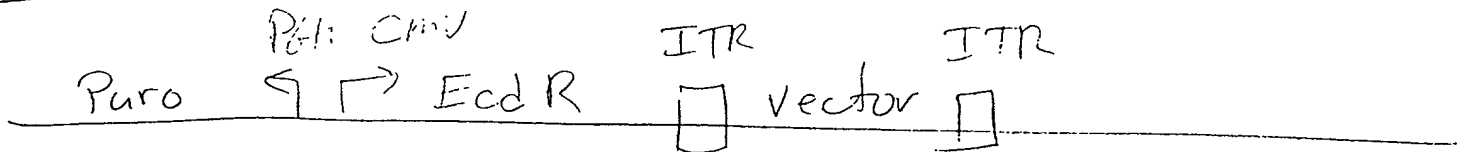


Fig 6

Transfection to 293 cells					
1	pH19	pladenos	LacZ(#188)	pUC119	663000000 6.63E+08
2	↓	↓	↓	p4.1cE1B19K(79-98)	38800000 3.88E+07
3	↓	↓	↓	p4.1cE1B19Kmut(81-98)	50100000 5.01E+07
4	↓	↓	↓	pTKE1B19K(79)	550000000 5.50E+08
5	↓	↓	↓	pTKE1B19Kmut(81)	453000000 4.53E+08
6	↓	↓	↓	p4.1E1B19K(79)	437000000 4.37E+08
7	↓	↓	↓	pTKBcl-XL	550000000 5.50E+08
8	↓	↓	↓	pTKBcl-2	420000000 4.20E+08

pTK.... means the plasmid has TK promoter.

Transfection to Hela cells					
1	pRCMLacZ(#275)	pladenos	E1	pUC119	1960000 1.96E+06
2	↓	↓	↓	pUC119	310000 3.10E+05
3	↓	↓	↓	pTKE1B19K(79)	6310000 6.31E+06
4	↓	↓	↓	pTKBcl-XL	3410000 3.41E+06
5	↓	↓	↓	pTKBcl-2	3060000 3.06E+06
6	↓	↓	↓	p4.1E1B19K(79)	3690000 3.69E+06

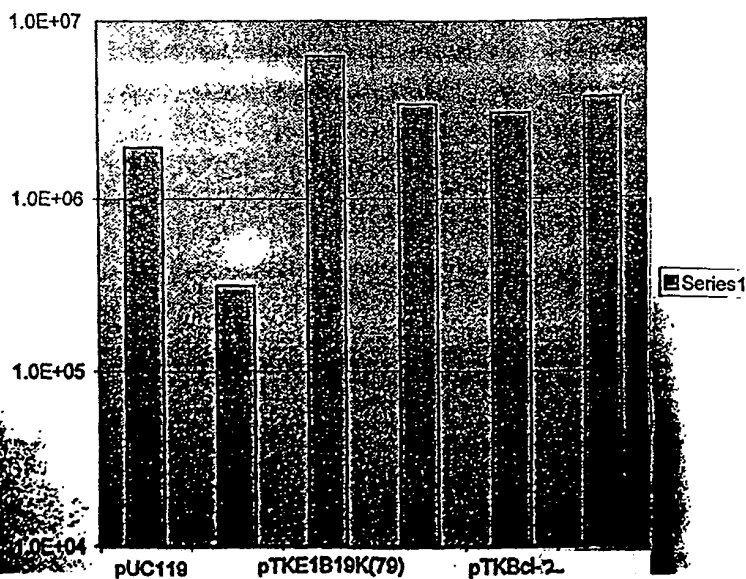
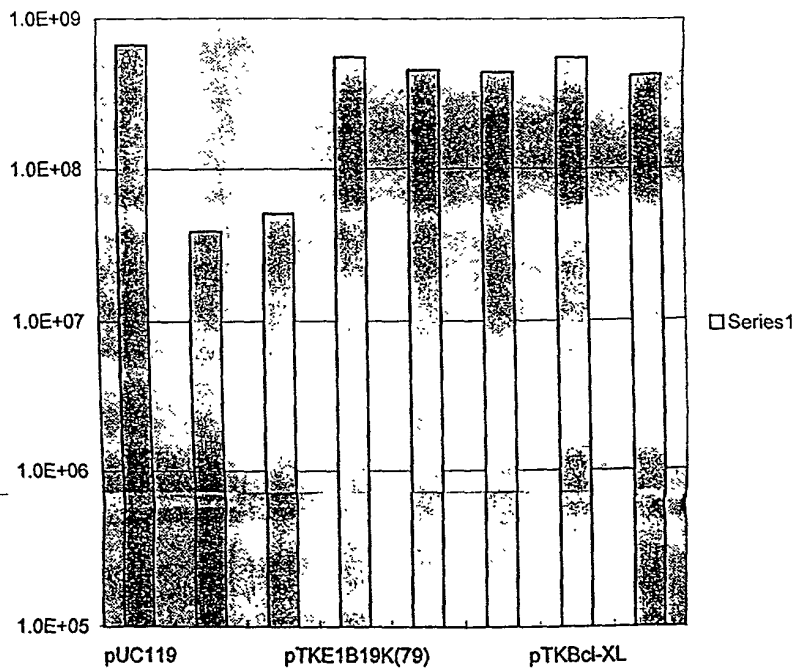


Fig 7